## WHITE STREET LANDFILL

Greensboro, North Carolina

Phase I Post Closure Monitoring
April 2006 Sampling

S&ME Project No. 1584-98-081

**Prepared For:** 

The City of Greensboro



Prepared By:

**S&ME, Inc.** 3718 Old Battleground Road Greensboro, North Carolina 27410



I hereby certify this 23<sup>rd</sup> day of August, 2006, that this report was prepared by me or under my direct supervision.

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Figure 1: **Groundwater Flow Map** 

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## 1.0 EXECUTIVE SUMMARY

Five monitoring wells and five stream locations at the White Street Landfill were sampled during May 2005. Five wells (I-1, I-2, I-3, I-4, and MW-13) comprise the groundwater monitoring system for the closed Phase I portion of the White Street Landfill. Monitoring well MW-13 serves as a background well for both the Phase I and the Phase II areas. The sampling was conducted according to North Carolina Solid Waste Management Guidelines. Samples were analyzed by a North Carolina certified laboratory. The samples collected from wells I-1, I-2, I-3, and I-4 were submitted for analysis using the federal Appendix I organic constituents and eight RCRA Metals for detection monitoring. The sample collected from well MW-13 and samples from surface water locations SW-1, SW-2, SW-3, SW-4 and SW-5 were analyzed for federal Appendix I detection monitoring constituents. Phase I shares the five surface water monitoring locations with Phase II and Phase III.

## 1.1 Analytical Results:

### 1.1.1 Metals

Results from the five Phase I monitoring wells indicate barium, cadmium, and chromium were all detected at quantified concentrations during the April 2006 groundwater monitoring event.

Barium, with reported at concentrations of  $575\mu g/L$  and  $744\mu g/L$  in groundwater monitoring wells I-2 and I-4 respectively, was quantified during this sampling event, but remained below the  $2000\mu g/L$  North Carolina 2L Standard for barium.

Groundwater monitoring well MW-13 showed a reported concentration of 4.3  $\mu$ g/L of cadmium during the April 2006 sampling event. In September of 2005 the North Carolina Department of Environment and Natural Resources (DENR) revised the 2L standard for cadmium from 5  $\mu$ g/L to 1.75  $\mu$ g/L. As a result, the reported concentration of cadmium in MW-13 exceeds the revised 2L standard for this constituent during this sampling event. However, monitoring well MW-13 is a background well and is not being influenced by the Facility. Therefore, the reported concentration of 4.3  $\mu$ g/L should be considered reflective of naturally occurring levels of cadmium within the hydrogeologic regime at the time of this sampling event.

Chromium was reported at quantified concentrations of 25.7 mg/L and 13.2 mg/L in Groundwater Monitoring Wells I-2 and I-4 respectively. However, both of these values are below the NCAC 2L Standard for chromium.

Zinc was detected in the surface water sample collected from location SW-3 during this sampling event. The reported concentration of 51.6 µg/L exceeds the NCAC 2B Standard established for zinc. It is important to note that sampling location SW-3 is located downstream of the North Buffalo Wastewater Treatment Plant outfall and upstream of the landfill. Therefore, the reported zinc concentration from this sampling location is not likely due to a release from the landfill Facility, but rather zinc from another upstream source.

No other RCRA metals were detected in the Phase I monitor wells or surface water samples on the date the samples were collected.

## 1.1.2 Volatile Organic Compounds

The volatile organic constituent chlorobenzene was detected at wells I-3 and I-4 at reported concentrations of 9.6  $\mu$ g/L and 9.8  $\mu$ g/L respectively. Neither of these concentrations exceed the 2L groundwater quality standard for chlorobenzene set at 50  $\mu$ g/L.

Additionally, 1,4-dichlorobenzene was detected in the groundwater sample collected from well I-4 at a reported concentration at the laboratory Quantitation Limit. Though quantified, the reported concentration of 5  $\mu$ g/L does not exceed the corresponding 2L groundwater quality standard of 75  $\mu$ g/L for 1, 4-dichlorobenzene.

No other volatile organic compounds were detected in any of the Phase I monitoring wells or the surface water samples on the dates the samples were collected.

## 2.0 INTRODUCTION

White Street Landfill is a Solid Waste Management Facility (SWMF) located at the north end of White Street in northeastern Greensboro. S&ME, Inc. (S&ME) performs routine groundwater monitoring, statistical analysis and reporting for the City of Greensboro's White Street Landfill

Facility. Phase I of the landfill is covered by Solid Waste Permit #41-03. **Figure 1** is a map showing the monitoring well locations. One upgradient and four down-gradient monitoring wells located along the perimeter of the closed Phase I disposal area were sampled. Five surface water samples were collected from North Buffalo Creek and one of its tributaries in the vicinity of the White Street facility. Phase I shares the surface water sampling locations with adjacent Phase II and Phase III.

The samples collected from Phase I wells I-1, I-2, I-3, and I-4 were analyzed for Appendix I volatile organic constituents and the eight RCRA metals. The sample collected from well MW-13 was analyzed for Appendix I volatile organic constituents and Appendix I inorganic constituents. This report discusses the field procedures, summarizes the field measurements and analytical results for the April 2006 water quality monitoring event.

## 3.0 SCOPE OF WORK

S&ME completed the following scope of services to complete the First Semi-Annual Groundwater Monitoring Event of the 2006 Groundwater Monitoring Year at the White Street Landfill, Phase I:

- S&ME sampled five monitoring wells and five surface water locations at the White Street landfill SWMF.
- S&ME obtained field values for pH, temperature, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and conductivity at each sample location.
- Depth to water measurements were collected during well purging to monitor drawdown.
- The collected samples from I-1, I-2, I-3, and I-4 were analyzed for Appendix I organic constituents and 8-RCRA metals by a North Carolina certified laboratory, using State approved methods.
- The surface water samples collected from Surface Water Monitoring points: SW-1, SW-2, SW-3, SW-4, and SW-5 were analyzed for Appendix I constituents by a North Carolina certified laboratory, using State approved methods.

- The groundwater sample collected from background monitoring well MW-13 was analyzed for Appendix I constituents by a North Carolina certified laboratory, using State approved methods (e.g. MW-13 is also part of Phase II, which has different analytical requirements).
- S&ME calculated groundwater flow directions at the Phase I area monitoring well locations which were based on static water elevations.
- S&ME prepared this First Semi-Annual 2006 Groundwater Monitoring Report for submittal to City of Greensboro and DENR.

## 4.0 METHODS EMPLOYED

## 4.1 Monitoring Well Sampling

Phase I groundwater monitoring well sampling took place on April 24, 2006. The monitoring well locations are shown on **Figure 1**. A representative from S&ME opened each well and measured the static water level from the top edge of the PVC casing in wells. The total well depth sounding data reported for the sampling events completed during September 1997 and May 1998, were used to determine the volume of water in wells I-1, I-2, I-3, I-4, and MW-13; where dedicated MicroPurgeTM pumps had been previously installed. These data are summarized in **Table 1**.

In accordance with the facility's approved Water Quality Monitoring Plan, each well was purged using the dedicated MicroPurge™ pumps. At each well, the purge rate and the drawdown of the water table were monitored as an indicator of how much stress the purging placed on the aquifer. The purge rates were calculated by recording the time required to fill a graduated cylinder. The purging flow rate was approximately 100 milliliters/minute (ml/min.). During purging, the depth to water was periodically monitored and recorded on the groundwater sampling field data sheets. The field data sheets are included in **Appendix A.** For the Phase I sampling event, the measured drawdown in the sampled wells ranged from 0.01 feet to 0.92 feet.

It is our opinion that the observed drawdowns were generally minor during purging; therefore, the stresses placed on the aquifer should have been minor. The observed drawdown data also suggests that the purging rates should have been low enough such that recharge water should not have been overly agitated, reducing the potential for colloids to be drawn into the well bore.

The purge water from each of these wells was monitored for pH, temperature, DO, turbidity, ORP, and conductivity. A sample was collected when the changes in those readings fluctuated no more than 10 percent. The field data collected during sampling was recorded on the groundwater sampling field data sheets. **Table 2** summarizes the results of the field data.

Groundwater samples were collected from dedicated Teflon tubing at each of the pumped wells. Immediately upon collection, each sample was placed in laboratory supplied containers, packed on ice, and placed under chain-of custody. The sampling technician wore latex gloves that were changed between wells to reduce the possibility of cross contamination. After collection, the groundwater samples were packed on ice and placed under chain-of custody.

All Phase I monitoring well samples (I-1, I-2, I-3, and I-4) were analyzed for Appendix I volatile organic constituents and the eight RCRA metals. Monitor well MW-13 was analyzed for Appendix I constituents since it is shared with Phase II as a background groundwater quality monitoring well for both Phase I and Phase II. Analyses were conducted by Environmental Conservation Laboratories; a North Carolina certified laboratory.

## 4.2 Stream Sampling

Surface water sampling took place on April 25 and 26, 2006. Four stream samples (SW-1, SW-3, SW-4, and SW-5) were collected from North Buffalo Creek, which flows along the northwestern side of the White Street Landfill. Surface water sample (SW-2) was collected from a tributary of North Buffalo Creek. The locations are shown in **Figure 2**. SW-1 was collected upstream from the landfill near the US Highway 29 bridge. SW-2 was collected from a southern tributary of North Buffalo Creek just before it joins the main creek west of the landfill entrance. SW-3 was collected downstream of the North Buffalo Wastewater Treatment Plant outfall and upstream of the landfill. SW-4 was collected downstream of the landfill at a USGS gauging station located on North Buffalo Creek about three-quarters of a mile north of the landfill. SW-5 was collected from North Buffalo Creek immediately downstream of the Phase I and II landfill disposal areas. The surface water samples were collected by immersing laboratory supplied containers in the water to be sampled. After collection, the surface water samples were packed on ice and placed under chain-of-custody. All stream samples were analyzed for Appendix I inorganic and volatile organic constituents by Environmental Conservation Laboratories; a North Carolina certified laboratory.

## 5.0 RESULTS

## 5.1 Groundwater Analytical Results

The results of the laboratory analyses for the closed Phase I area groundwater monitoring well samples are summarized in **Tables 3 & 4** and the complete laboratory reports are included in **Appendix B** of this Report. Groundwater Monitoring Wells I-1, I-2, I-3, I-4, and MW-13 monitor the closed Phase I area. The following summarizes the groundwater sample analyses.

### **5.1.1** Metals

Results from the five Phase I monitoring wells indicate barium, cadmium, and chromium were all detected at quantified concentrations during the April 2006 groundwater monitoring event.

Barium, with reported at concentrations of  $575\mu g/L$  and  $744\mu g/L$  in groundwater monitoring wells I-2 and I-4 respectively, was quantified during this sampling event, but remained below the  $2000\mu g/L$  North Carolina 2L Standard for barium .

Groundwater monitoring well MW-13 showed a reported concentration of 4.3  $\mu$ g/L of cadmium during the April 2006 sampling event. In September of 2005 the North Carolina Department of the Environment and Natural Resources (DENR) revised the 2L standard for cadmium from 5  $\mu$ g/L to 1.75  $\mu$ g/L. As a result, the reported concentration of cadmium in MW-13 exceeds the revised 2L standard for this constituent during this sampling event. However, monitoring well MW-13 is a background well and is not being influenced by the Facility. Therefore, the reported concentration of 4.3  $\mu$ g/L should be considered reflective of naturally occurring levels of cadmium within the Hydrogeologic regime at the time of this sampling event.

Chromium was reported at quantified concentrations of 25.7 mg/L and 13.2 mg/L in Groundwater Monitoring Wells I-2 and I-4 respectively. However, both of these values are below the NCAC 2L standard for chromium.

## 5.1.2 Volatile Organic Compounds

The volatile organic constituent chlorobenzene was detected at wells I-3 and I-4 at reported concentrations of 9.6  $\mu$ g/L and 9.8  $\mu$ g/L respectively. Neither of these concentrations exceed the 2L groundwater quality standard for chlorobenzene set at 50  $\mu$ g/L.

Additionally, 1,4-dichlorobenzene was detected in the groundwater sample collected from well I-4 at a reported concentration at the laboratory Quantitation Limit. Though quantified, the reported concentration of 5  $\mu$ g/L does not exceed the corresponding 2L groundwater quality standard of 75  $\mu$ g/L for 1,4-dichlorobenzene.

No other volatile organic compounds were detected in any of the Phase I monitoring well samples on the dates the samples were collected.

## 5.2 Groundwater Flow Direction

The static water levels in the Phase I monitoring wells were measured on April 24, and 25, 2006. The depth to the water table ranged from 2.49 to 21.05 feet below the top of well casing on this date. Groundwater and well casing elevation data are presented in Table 1. A groundwater contour map constructed using the data collected on April 24 and 25 is presented as Figure 1. The groundwater gradient at each well was calculated assuming a constant groundwater gradient along the flow line between adjacent groundwater elevation contours or between the well and the nearest contour. The groundwater elevation data collected during this monitoring event indicates that the groundwater beneath Phase I generally flows toward the west and northwest, toward Buffalo Creek. This is, in general, consistent with the results from previous monitoring events.

### 5.3 Surface Water

The results of the laboratory analyses for Appendix I constituents in the surface water samples are summarized in Tables 5 & 6.

Zinc was detected in the surface water sample collected from location SW-3 during this sampling event. The reported concentration of  $51.6~\mu g/L$  exceeds the NCAC 2B Standard established for zinc. It is very important to note that sampling location SW-3 is located downstream of the North Buffalo Wastewater Treatment Plant outfall and upstream of the landfill. Therefore, the reported zinc concentration from this sampling location is not likely due to a release from the landfill Facility, but rather zinc from another upstream source. No other RCRA metals were detected in the surface water samples on the date the samples were collected.

No Appendix I volatile organic compounds were detected at any of the surface water sample locations on the dates sampled. The complete laboratory reports are included in Appendix B.

## 5.4 Quality Assurance

All of the monitoring wells in Phase I were sampled using dedicated micro-purge pumps. Therefore, no equipment rinse samples were collected for analysis for data quality control. Trip blank samples accompanied the sample bottles from the time they left the laboratory until they returned. The trip blank samples were analyzed for Appendix I volatile organic constituents. No volatile organic constituents were present in the trip blank samples at detectable levels. Laboratory QC samples were analyzed for all constituents included in this sampling event. The results of the trip blank, and laboratory QC sample analyses are included in Appendix B of this Report.

## 6.0 REFERENCES

Fetter, C. W., 1988, Applied Hydrogeology, New York; Macmillian Publishing Company, 1988, 592 pp.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300 (November 8, 1993); from the Environmental Management Commission Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2B, Classifications and Water Quality Standards Applicable to the Surface Waters of North Carolina, Section .0200 (April 1, 1991); from the Environmental Management Commission, Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Solid Waste Management, subchapter 13B, Solid Waste Management, Section .1600 (January 1, 1997).

## **TABLES**

## TABLE 1 GROUNDWATER ELEVATION DATA SUMMARY (4/06) PHASE I - WHITE STREET LANDFILL GREENSBORO, NORTH CAROLINA S&ME PROJECT NO. 1584-98-081

				Static Wa	ter Levels		
Well No.	Elevation	Elevation   Depth of		11, 2005	April 24, 2006		
	TOC (feet)	Well (feet)	DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)	
I-1	776.11	23.36	10.54	765.57	8.94	767.17	
I-2	768.58	23.13	5.05	763.53	4.66	763.92	
I-3	764.65	24.22	13.99	750.66	13.03	751.62	
I-4	759.83	14.57	5.50	754.33	2.49	757.34	
MW-13	741.30	33.78	21.58	719.72	21.05	720.25	

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.

Depth of well data as reported by BPA Environmental & Engineering, Inc.

 $DTGW = Depth \ to \ Groundwater$ 

*Elevation = calculated groundwater elevation* 

## TABLE 2 GROUNDWATER & SURFACE WATER FIELD DATA SUMMARY (4/06) PHASE I - WHITE STREET LANDFILL GREENSBORO, NORTH CAROLINA S&ME PROJECT NO. 1584-98-081

Location:	I-1								
Time	Date	Temp-C	Temp-F	pН	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0954	24-Apr-06	16.43	61.574	5.73	1.970	46	2.48	5.75	8.94
0959	24-Apr-06	16.05	60.890	5.71	1.990	47	1.91	5.75	0.0
1004	24-Apr-06	16.07	60.926	5.7	1.990	43	1.45	7.12	
1009	24-Apr-06	16.34	61.412	5.67	2.010	52	1.14	7.63	
1014	24-Apr-06	15.82	60.476	5.66	2.05	55	0.81	7.88	
1019	24-Apr-06	15.68	60.224	5.66	2.07	56	0.7	7.80	
1024	24-Apr-06	15.69	60.242	5.65	2.08	58	0.6	7.18	
Location:	I-2								
Time	Date	Temp-C	Temp-F	pН	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1051	24-Apr-06	18.53	65.354	6.17	2.53	-90	0.87	78	4.66
1056	24-Apr-06	17.67	63.806	6.18	2.55	-114	0.38	94	4.00
1101	24-Apr-06	17.69	63.842	6.18	2.55	-120	0.27	231	
1106	24-Apr-06	17.88	64.184	6.19	2.55	-128	0.26	272	
1111	24-Apr-06	17.88	64.184	6.2	2.54	-129	0.23	276	
1116	24-Apr-06	17.92	64.256	6.21	2.54	-129	0.23	250	
Location:	I-3								
Time	Date	Temp-C	Temp-F	рH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1142	24-Apr-06	16.72	62.096	6.49	3.12	-95	1.26	36.3	13.03
1147	24-Apr-06	16.92	62.456	6,44	3.06	-95	0.8	21.6	13.03
1152	24-Apr-06	16.9	62.42	6.43	3.03	-92	0.68	21.6	
1157	24-Apr-06	17.1	62.78	6,41	3.03	-92	0.54	36.40	
1202	24-Apr-06	17.24	63.032	6.4	3.03	-91	0.49	35.40	
1207	24-Apr-06	17.35	63.23	6.4	3.01	-89	0.4	39.00	
Location:	I-4								
Location:		Temp-C	Temp-F	рΗ	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTH	Denth to Water-foot
Location: Time	<b>I-4 Date</b> 24-Apr-06	<b>Temp-C</b> 16.07	<b>Temp-F</b> 60.926	<b>pH</b> 6.82	SpC-mS/cm 2.59	ORP-mV -60	DO-mg/L 3.24	Turbidity-NTU 200	Depth to Water-feet
<b>Time</b> 1230	Date 24-Apr-06	16.07	60.926	6.82	2.59	-60	3.24	200	Depth to Water-feet 2.49
Time	<b>Date</b> 24-Apr-06 24-Apr-06	-	•	6.82 6.85	2.59 2.69	-60 -66	3.24 1.63	200 245	
Time 1230 1235	Date 24-Apr-06	16.07 15.87 15.94	60.926 60.566	6.82	2.59 2.69 2.87	-60 -66 -77	3.24 1.63 1.01	200 245 413	
Time 1230 1235 1240	<b>Date</b> 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87	60.926 60.566 60.692	6.82 6.85 6.86	2.59 2.69 2.87 2.94	-60 -66	3.24 1.63	200 245 413 461.0	
Time 1230 1235 1240 1245	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87 15.94 16.17	60.926 60.566 60.692 61.106	6.82 6.85 6.86 6.86	2.59 2.69 2.87 2.94 2.97	-60 -66 -77 -89 -96	3.24 1.63 1.01 0.51 0.33	200 245 413 461.0 418.0	
Time 1230 1235 1240 1245 1250	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87 15.94 16.17 15.97	60.926 60.566 60.692 61.106 60.746	6.82 6.85 6.86 6.86 6.87	2.59 2.69 2.87 2.94	-60 -66 -77 -89	3.24 1.63 1.01 0.51	200 245 413 461.0	
Time 1230 1235 1240 1245 1250 1255	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69	60.926 60.566 60.692 61.106 60.746 60.242	6.82 6.85 6.86 6.86 6.87 6.88	2.59 2.69 2.87 2.94 2.97 2.99	-60 -66 -77 -89 -96 -103	3.24 1.63 1.01 0.51 0.33 0.24	200 245 413 461.0 418.0 428	
Time 1230 1235 1240 1245 1250 1255 1300	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69	60.926 60.566 60.692 61.106 60.746 60.242	6.82 6.85 6.86 6.86 6.87 6.88 6.89	2.59 2.69 2.87 2.94 2.97 2.99	-60 -66 -77 -89 -96 -103	3.24 1.63 1.01 0.51 0.33 0.24 0.18	200 245 413 461.0 418.0 428 398	2.49
Time 1230 1235 1240 1245 1250 1255 1300  Location:	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53	60.926 60.566 60.692 61.106 60.746 60.242 59.954	6.82 6.85 6.86 6.86 6.87 6.88	2.59 2.69 2.87 2.94 2.97 2.99 3.01	-60 -66 -77 -89 -96 -103 -107	3.24 1.63 1.01 0.51 0.33 0.24	200 245 413 461.0 418.0 428 398	2.49  Depth to Water-feet
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688	6.82 6.85 6.86 6.86 6.87 6.88 6.89 <b>pH</b> 6.78	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603	-60 -66 -77 -89 -96 -103 -107 ORP-mV	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73	200 245 413 461.0 418.0 428 398 Turbidity-NTU 2.9	2.49
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 <b>Temp-C</b> 18.16	60.926 60.566 60.692 61.106 60.746 60.242 59.954	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86	200 245 413 461.0 418.0 428 398 Turbidity-NTU 2.9 2.06	2.49  Depth to Water-feet
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 <b>Temp-C</b> 18.16 18.68	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624	6.82 6.85 6.86 6.86 6.87 6.88 6.89 <b>pH</b> 6.78	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568 0.557	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123 128	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86 3.13	200 245 413 461.0 418.0 428 398 Turbidity-NTU 2.9 2.06 1.7	2.49  Depth to Water-feet
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605 1610	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 25-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 <b>Temp-C</b> 18.16 18.68 18.69	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624 65.642	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65 6.61	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86 3.13 3.38	200 245 413 461.0 418.0 428 398 Turbidity-NTU 2.9 2.06 1.7 1.64	2.49  Depth to Water-feet
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605 1610 1615	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 <b>Temp-C</b> 18.16 18.68 18.69 18.56	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624 65.642 65.408	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65 6.61 6.59	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568 0.557 0.548	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123 128 132	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86 3.13	200 245 413 461.0 418.0 428 398 Turbidity-NTU 2.9 2.06 1.7	2.49  Depth to Water-feet
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605 1610 1615 1620	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 <b>Temp-C</b> 18.16 18.68 18.69 18.56 19.29	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624 65.642 65.408 66.722	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65 6.61 6.59 6.55	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568 0.557 0.548 0.541	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123 128 132 135	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86 3.13 3.38 3.51	200 245 413 461.0 418.0 428 398  Turbidity-NTU 2.9 2.06 1.7 1.64 1.83	2.49  Depth to Water-feet
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605 1610 1615 1620 1625	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06  MW-13 Date 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 <b>Temp-C</b> 18.16 18.68 18.69 18.56 19.29	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624 65.642 65.408 66.722	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65 6.61 6.59 6.55	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568 0.557 0.548 0.541	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123 128 132 135	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86 3.13 3.38 3.51 3.61	200 245 413 461.0 418.0 428 398  Turbidity-NTU 2.9 2.06 1.7 1.64 1.83 1.92	2.49  Depth to Water-feet 21.05
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605 1610 1615 1620 1625  Location:	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 Temp-C 18.16 18.68 18.69 18.56 19.29 19.02	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624 65.642 65.408 66.722 66.236	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65 6.61 6.59 6.55 6.54	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568 0.557 0.548 0.541 0.537	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123 128 132 135 137	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86 3.13 3.38 3.51 3.61	200 245 413 461.0 418.0 428 398  Turbidity-NTU 2.9 2.06 1.7 1.64 1.83	2.49  Depth to Water-feet
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605 1610 1615 1620 1625  Location: Time	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 Temp-C 18.16 18.68 18.69 18.56 19.29 19.02	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624 65.642 65.408 66.722 66.236	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65 6.61 6.59 6.55 6.54	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568 0.557 0.548 0.541 0.537	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123 128 132 135 137	3.24 1.63 1.01 0.51 0.33 0.24 0.18 DO-mg/L 2.73 2.86 3.13 3.38 3.51 3.61	200 245 413 461.0 418.0 428 398  Turbidity-NTU 2.9 2.06 1.7 1.64 1.83 1.92	2.49  Depth to Water-feet 21.05
Time 1230 1235 1240 1245 1250 1255 1300  Location: Time 1600 1605 1610 1615 1620 1625  Location: Time 0835	Date 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 24-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06 25-Apr-06	16.07 15.87 15.94 16.17 15.97 15.69 15.53 Temp-C 18.16 18.68 18.69 18.56 19.29 19.02	60.926 60.566 60.692 61.106 60.746 60.242 59.954 Temp-F 64.688 65.624 65.642 65.408 66.722 66.236	6.82 6.85 6.86 6.87 6.88 6.89 <b>pH</b> 6.78 6.65 6.61 6.59 6.55 6.54	2.59 2.69 2.87 2.94 2.97 2.99 3.01 SpC-mS/cm 0.603 0.568 0.557 0.548 0.541 0.537	-60 -66 -77 -89 -96 -103 -107 ORP-mV 116 123 128 132 135 137	3.24 1.63 1.01 0.51 0.33 0.24 0.18  DO-mg/L 2.73 2.86 3.13 3.38 3.51 3.61	200 245 413 461.0 418.0 428 398  Turbidity-NTU 2.9 2.06 1.7 1.64 1.83 1.92	2.49  Depth to Water-feet 21.05

Location: Time 0815	SW-3 Date 4/26/2006	Temp-C 18.47	Temp-F 65.246	<b>рН</b> 6.86	SpC-mS/cm 0.335	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
Location: Time 0915	SW-4 Date 4/26/2006	<b>Temp-C</b> 19.05	Temp-F 66.29	<b>рН</b> 7.2	SpC-mS/cm 0.286	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
Location: Time 1705	SW-5 Date 4/25/2006	Temp-C 22.24	<b>Temp-F</b> 72.032	<b>рН</b> 7.38	SpC-mS/cm 0.404	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet

## TABLE 3

## GROUNDWATER ANALYTICAL RESULTS SUMMARY (4/06) APPENDIX I - VOLATILE ORGANIC COMPOUNDS PHASE I - WHITE STREET LANDFILL GREENSBORO, NORTH CAROLINA S&ME PROJECT NO. 1584-98-081

Compound	The second secon	Sa	mple Locati	ons		POL	NCAC 2L
	I-1	1-2	I-3	I-4	MW-13	- (-	stds.
Chloromethane	ND	ND	ND	ND	ND	10	ns
Vinyl Chloride	ND	ND	ND	ND	ND	10	0.015
Bromomethane	ND	ND	ND	ND	ND	10	ns
Chloroethane	ND	ND	ND	ND	ND	10	2800
Trichlorofluoromethane	ND	ND	ND	ND	ND	5	2100
1,1-Dichloroethene	ND	ND	ND	ND	ND	5	7
Acetone	ND	ND	ND	ND	ND	100	700
Iodomethane	ND	ND	ND	ND	ND	10	ns
Carbon Disulfide	ND	ND	ND	ND	ND	100	700
Methylene Chloride	ND	ND	ND	ND	ND	10	5
Acrylonitrile	ND	ND	ND	ND	ND	200	ns
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	5	70
1,1-Dichloroethane	ND	ND	ND	ND	ND	5	700
Vinyl Acetate	ND	ND	ND	ND	ND	50	ns
cis 1,2-dichloroethene	ND	ND	ND	ND	ND	5	70
2-Butanone	ND	ND	ND	ND	ND	100	170
Bromochloromethane	ND	ND	ND	ND	ND	5	ns
Chloroform	ND	ND	ND	ND	ND	5	0.19
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	5	200
Carbon Tetrachloride	ND	ND	ND	ND	ND	10	0.3
Benzene	ND	ND	ND	ND	ND -	5	1 1
1,2-Dichloroethane	ND	ND	ND	ND	ND	5	0.38
Trichloroethene	ND	ND	ND	ND	ND	5	2.8
1,2-Dichloropropane	ND	ND	ND	ND	ND	5	0.56
Dibromomethane	ND	ND	ND	ND	ND	10	ns
Bromodichloromethane	ND	ND	ND	ND	ND	5	0.6
cis 1,3-dichloropropene	ND	ND	ND	ND	ND	10	0.0
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	100	
Toluene	ND	ND	ND	ND	ND	5	1000
trans 1,3-dichloropropene	ND	ND	ND	ND	ND	10	0.2
1,1,2-Trichloroethane	ND	ND	ND	ND ND	ND	T/D) (************************************	
Tetrachloroethene	ND	ND	ND	ND	ND	5	ns 0.7
2-Hexanone	ND ND	ND ND	ND ND	ND	ND ND	50	1
Dibromochloromethane	ND	ND	ND	ND	ND	5	ns
1,2-Dibromoethane	ND	ND	ND	ND	ND ND	5	0.0004
Chlorobenzene	ND	ND ND	9.6	9.8	ND	<u> </u>	
1,1,1,2-Tetrachloroethane	ND ND	ND ND	9.0 ND	9,8 ND	ND ND	5	50
Ethylbenzene	ND ND	ND ND	ND ND	ND ND	ND ND	5	ns 29
m & p, Xylenes	ND	ND	ND ND	ND ND			
o-Xylenes	ND	ND	ND ND	ND	ND ND	5	530
Styrene	ND	ND		***************************************	-	5	530
Bromoform	ND	ND ND	ND ND	ND ND	ND ND	10	100
1,1,2,2-Tetrachloroethane	ND	ND ND	ND ND	CONTROL DESCRIPTION OF THE PROPERTY OF THE PRO		5	0.19
1,2,3-Trichloropropane	ND ND			ND	ND	5	ns
trans 1,4-Dichloro-2-Butene	ND ND	ND ND	ND	ND	ND	15	ns
		THE RESERVE AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE	ND	ND E	ND	100	ns
1,4-Dichlorobenzene	ND	ND	ND	5	ND	5	75
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	5	620
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	25	0.025

reported concentrations = micrograms per liter (ug/L)

PQL = Methods Practical Quantitation Limits

ND = Analyate not detected

NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, GW Quality

Standards for Class GA groundwater.

Yellow highlights indicate a measurement higher than the PQL.

Orange highlights indicate a measurement higher than 2L standards.

## TABLE 4

## GROUNDWATER ANALYTICAL RESULTS SUMMARY (4/06) 8-RCRA METALS

## PHASE I - WHITE STREET LANDFILL GREENSBORO, NORTH CAROLINA S&ME PROJECT NO. 1584-98-081

Constituent	M-4	S	ample Locatio	ns		PQL	NCAC 2L
	I-1	I-2	I-3	I-4	MW-13	-	stds.
Arsenic	ND	ND	ND	ND	ND	10	5
Barium	ND	575	ND	744	ND	500	2000
Cadmium	ND	ND	ND	ND	4.3	1	1.75
Chromium	ND	25.7	ND	13.2	ND	10	50
Lead	ND	ND	ND	ND	ND	10	15
Mercury	ND	ND	ND	ND	ND	0.5	1.1
Selenium	ND	ND	ND	ND	ND	20	50
Silver	ND	ND	ND	ND	ND	10	18

all concentrations reported in micrograms per liter (ug/L)

PQL = Methods Practical Quantitation Limits

ND = Analyate not detected

NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater.

ns = no standard listed according to NCAC 2L

Yellow highlights indicate a measurement higher than the PQL.

Orange highlights indicate a measurement higher than 2L standards.

## TABLE 5

## SURFACE WATER ANALYTICAL RESULTS SUMMARY (4/06) APPENDIX I - VOLATILE ORGANIC COMPOUNDS PHASE I - WHITE STREET LANDFILL GREENSBORO, NORTH CAROLINA S&ME PROJECT NO. 1584-98-081

Compound		Sa	mple Locati	ons	The second secon	15A NCAC 2B	PQL
TOTAL SANDONING MATERIAL PROPERTY OF THE SANDONING SANDONING SANDONING SANDONING SANDONING SANDONING SANDONING	SW-1	SW-2	SW-3	SW-4	SW-5	Standards*	~
Chloromethane	ND	ND	ND	ND	ND	ns	10
Vinyl Chloride	ND	ND	ND	ND	ND	ns	10
Bromomethane	ND	ND	ND	ND	ND	ns	10
Chloroethane	ND	ND	ND	ND	ND	ns	10
Trichlorofluoromethane	ND	ND	ND	ND	ND	ns	5
1,1-Dichloroethene	ND	ND	ND	ND	ND	ns	5
Acetone	ND	ND	ND	ND	ND	ns	100
Iodomethane	ND	ND	ND	ND	ND	ns	10
Carbon Disulfide	ND	ND	ND	ND	ND	ns	100
Methylene Chloride	ND	ND	ND	ND	ND	ns	10
Acrylonitrile	ND	ND	ND	ND	ND	ns	200
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ns	5
1.1-Dichloroethane	ND	ND	ND	ND	ND	ns	5
Vinyl Acetate	ND	ND	ND	ND	ND	ns	50
cis 1,2-dichloroethene	ND	ND	ND	ND	ND	ns	5
2-Butanone	ND	ND	ND	ND	ND	ns	100
Bromochloromethane	ND	ND	ND	ND	ND	ns	5
Chloroform	ND	ND	ND	ND	ND	ns	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ns	5
Carbon Tetrachloride	ND	ND	ND	ND	ND	ns	10
Benzene	ND	ND	ND	ND	ND	ns	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ns	5
Trichloroethene	ND	ND	ND	ND	ND	ns	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ns	5
Dibromomethane	ND	ND	ND	ND	ND	ns	10

PQL = Methods Practical Quantitation Limits

ND = Parameter not detected

\* = Title 15A NCAC 2B Standards for Class B, C surface water

ns = Title 15A NCAC 2B provides no established standard for these constituents Yellow highlights indicate a measurement higher than the PQL. Orange highlights indicate a measurement higher than 2B standards.

## TABLE 5 (Cont.)

## SURFACE WATER ANALYTICAL RESULTS SUMMARY (4/06) APPENDIX I - VOLATILE ORGANIC COMPOUNDS PHASE I - WHITE STREET LANDFILL GREENSBORO, NORTH CAROLINA S&ME PROJECT NO. 1584-98-081

Compound	cool/secons and analysis and an experience of the contract of	Sa	mple Locati	ons		15A NCAC 2B	PQL
	SW-1	SW-2	SW-3	SW-4	SW-5	Standards*	
Bromodichloromethane	ND	ND	ND	ND	ND	ns	5
cis 1,3-dichloropropene	ND	ND	ND	ND	ND	ns	10
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ns	100
Toluene	ND	ND	ND	ND	ND		5
trans 1,3-dichloropropene	ND	ND	ND	ND	ND	ns	10
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ns	5
Tetrachloroethene	ND	ND	ND	ND	ND	ns	5
2-Hexanone	ND	ND	ND	ND	ND	ns	50
Dibromochloromethane	ND	ND	ND	ND	ND	ns	5
1,2-Dibromoethane	ND	ND	ND	ND	ND	ns	5
Chlorobenzene	ND	ND	ND	ND	ND	ns	5
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ns	5
Ethylbenzene	ND	ND	ND	ND	ND	ns	5
m & p, Xylenes	ND	ND	ND	ND	ND	ns	5
o-Xylenes	ND	ND	ND	ND	ND	ns	5
Styrene	ND	ND	ND	ND	ND	ns	10
Bromoform	ND	ND	ND	ND	ND	ns	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ns	5
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ns	15
trans 1,4-Dichloro-2-Butene	ND	. ND	ND	ND	ND	ns	100
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ns	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ns	5
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ns	25

PQL = Methods Practical Quantitation Limits

ND = Parameter not detected

\* = Title 15A NCAC 2B Standards for Class B, C surface water

ns = Title 15A NCAC 2B provides no established standard for these constituents Yellow highlights indicate a measurement higher than the PQL. Orange highlights indicate a measurement higher than 2B standards.

# TABLE 6 SURFACE WATER ANALYTICAL RESULTS SUMMARY (4/06) APPENDIX I - METALS PHASE I - WHITE STREET LANDFILL GREENSBORO, NORTH CAROLINA S&ME PROJECT NO. 1584-98-081

Compound		Sa	mple Locatio	ons	CONTRACTOR	15A NCAC 2B	PQL
	SW-1	SW-2	SW-3	SW-4	SW-5	Standards*	(µg/l)
Antimony	ND	ND	ND	ND	ND	ns	30
Arsenic	ND	ND	ND	ND	ND	50	10
Barium	ND	ND	ND	ND	ND	ns	500
Beryllium	ND	ND	ND	ND	ND	6.5	2
Cadmium	ND	ND	ND	ND	ND	2	
Chromium	ND	ND	ND	ND	ND	50	10
Cobalt	ND	ND	ND	ND	ND	ns	10
Copper	ND	ND	ND	ND	ND	ns	200
Lead	ND	ND	ND	ND	ND	25	10
Nickel	ND	ND	ND	ND	ND	88	50
Selenium	ND	ND	ND	ND	ND	5	20
Silver	ND	ND	ND	ND	ND	ns	10
Thallium	ND	ND	ND	ND	ND	ns	10
Vanadium	ND	ND	ND	ND	ND	ns	40
Zinc	ND	ND	51.6	ND	ND	50	50

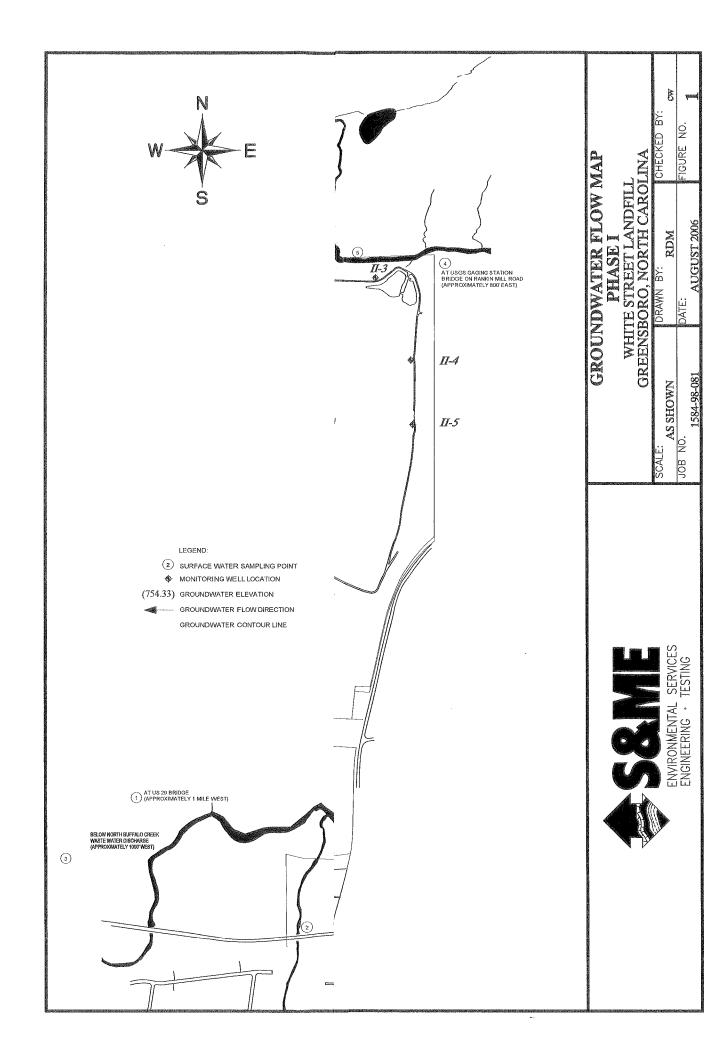
PQL = Methods Practical Quantitation Limits

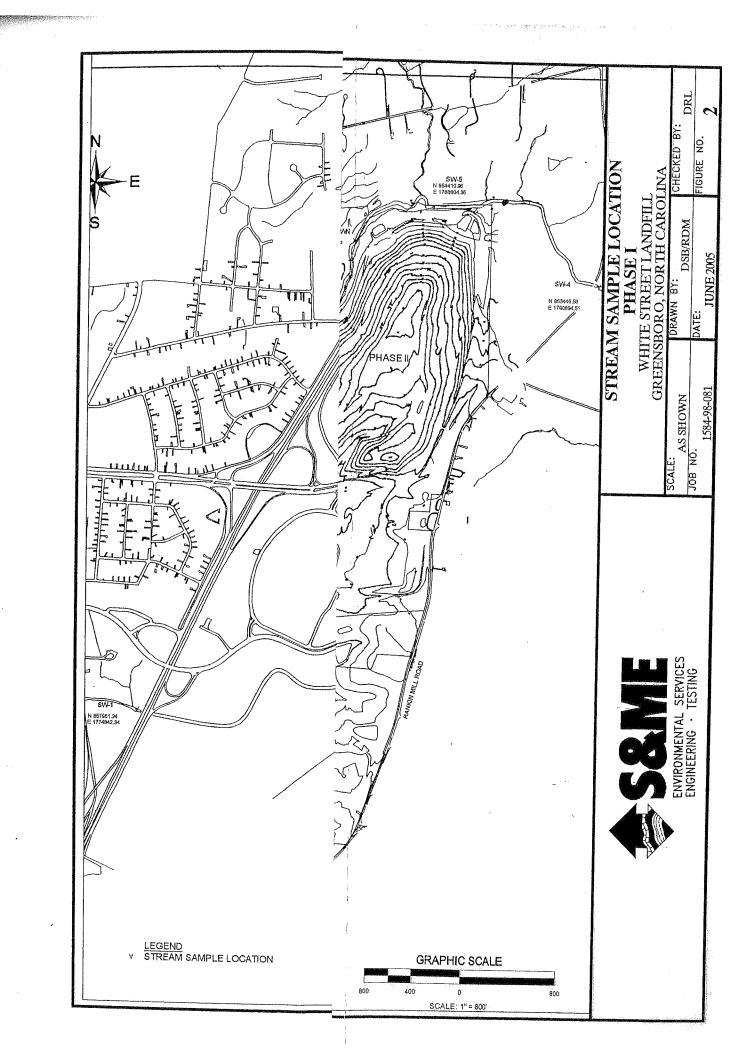
ND = Parameter not detected

\* = Title 15A NCAC 2B Standards for Class B, C surface water

ns = Title 15A NCAC 2B provides no established standard for these constituents Yellow highlights indicate a measurement higher than the PQL. Orange highlights indicate a measurement higher than 2B standards.

## **FIGURES**





## **APPENDIX A**

**Groundwater Sampling Field Data Sheets** 

Location	White Stre	et Landfill		_Purge Date	4/	24/06		-	
Project No.	1584-98-08	31	*************************	_Purge Time				~	
Source Well	<u> </u>	-		_Sample Dat	e 4/3	24/06		-	
Locked?	<b>F</b>	No		Sample Tim	ie 10:	30		-	
PVO	Steel	Stainless		Weather	P/CI	υυογ		<u>.</u>	
Sampled By	<u>G</u> S	/MC		_Air Temp	45	0			
Water Lev	el and We	ell Data					Nor	E: Fance	LOCKED
Depth to wate	er from mea	suring point	i	8	.94	\$4130000 PM	_feet	MBELED	£.
Depth to well	bottom from	n measuring	g point	Date of the late o			_feet		;
Height of wat	er column			6-MW-97302-Managed and Confederation			_feet		
Measuring Po	oint			T	06	·*************************************			
Well Purgi	ing and S	ample Co	ollection			•			
Purge Method	d	P	JMP						
Sample Meth	od	Pi	JMP	***************************************	Start	Sample Co	Ilection Tim _Stop	1e	
Sample Meth	od	P:	>	liter/min	Start Start			1024	
	control sett	)00	>	liter/min	Start Start cycles	Purg	Stop e Time	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
	control sett changes? ater in well	)OC	) 6 on 25		Start Start	Purg	Stop e Time	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Purge Rate	control sett changes? ater in well 2" well (vol	) O c ings ume = 0.16	) 6 on 25		Start Start cycles	Purg	Stop e Time	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Purge Rate  Volume of W	control sett changes? ater in well 2" well (vol 4" well (vol	) O o ings ume = 0.16 ume = 0.65	) 6 on 25		Start Start cycles	Purg 0948	_Stop e Time _Stop	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Purge Rate  Volume of War	control sett changes? ater in well 2" well (vol 4" well (vol	) O o ings ume = 0.16 ume = 0.65	3 x h) 1 x h)	off e 21 PS1	Start Start cycles	Purg	Stop e Time	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Purge Rate  Volume of Was well purgents	control sett changes? ater in well 2" well (volu 4" well (volu ater removed ged dry	) O o ings ume = 0.16 ume = 0.65	) 6 on 25		Start Start cycles	Purg 0948	_Stop e Time _Stop	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Purge Rate  Volume of Was well purger  Field Analy	control sett changes? ater in well 2" well (volu 4" well (volu ater removed ged dry	) O o ings ume = 0.16 ume = 0.65	3 x h) 1 x h)	off e 21 PS1	Start Start cycles	Purg 0948	_Stop e Time _Stop	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Purge Rate  Volume of Was Was well purge  Field Analy  * Stabilization	control sett changes? ater in well 2" well (volu 4" well (volu ater removed ged dry yses	) O o ings ume = 0.16 ume = 0.65	25 3 x h) 1 x h) Yes	(NO)	Start Start cycles duration	Purg o948 gallon	Stop  e Time Stop  liters	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Volume of Was well pure Field Analy * Stabilization Time	control sett changes? ater in well 2" well (volumenter removed ged dry yses Parameters	) O o ings ume = 0.16 ume = 0.65	3 x h) 1 x h)	NO 1009	Start Start cycles	Purg 0948	Stop e Time Stop liters	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Purge Rate  Volume of Was Was well purge  Field Analy  * Stabilization	control sett changes? ater in well 2" well (volu 4" well (volu ater removed ged dry yses	) O C ings ume = 0.16 ume = 0.65	7	(NO)	Start Start cycles duration	Purg o948 gallon	Stop  e Time Stop  liters	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Volume of Was well pure  Field Analy  * Stabilization Time Temp	control setted changes?  ater in well 2" well (volumenter removed dry  yses  Parameters  on 24  i.e.43	) CO ings ume = 0.16 ume = 0.65 d s o 9 5 9 14.85 5.71 1.99	7	No No 1009 16.34 5.67 2.01	Start Start cycles duration	948 0948 gallon	Stop  e Time Stop  liters	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Volume of Was well pure  * Stabilization Time Temp pH	control sette changes?  ater in well 2" well (volumenter removed) ater removed ged dry  yses a Parameters onse onse 5.13	) O Cings  ume = 0.16  ume = 0.65  d  s  o 9 5 9  14.05  5.71	7 6 on 25 3 x h) 1 x h) Yes	No No 1009	Start Start cycles duration	948 0948 gallon	Stop  e Time Stop  liters	WOOMS COLUMN TO A SECTION COLUMN TO THE SECTION OF	
Volume of Was well pure  Field Analy  * Stabilization Time Temp pH Conductivity	control sette changes?  ater in well 2" well (volumenter removed dry  yses 1 Parameters 0954 16.43 5.73	) CO ings ume = 0.16 ume = 0.65 d s o 9 5 9 14.85 5.71 1.99	7	No No 1009 16.34 5.67 2.01	Start Cycles duration  1014 15.82 5.66 2.05	948 0948 gallon 1019 15.48 5.44 2.07	Stop  e Time Stop  liters  liters  1024 15.63 5.65 2.08	1024	

Location	White Stre	et Landf	ill	_Purge Date	)	1/24/06	i et kinn videna di di didiki 12° kwa mwa 128 kwa 12° kwa mwa 128 kwa 12° kwa mwa 128 kwa 12°		
Project No.	1584-98-0	81		Purge Time	)	4 to Monaya and a second a second and a second a second and a second a second and a		NA ARRIVANCO	
Source Well	I	- Z		_Sample Da	te	4/24/06		asconta	
Locked?	<b>F</b>	(No	· .	Sample Tir	n <u>e</u>	11 20		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
PVC	Steel	Stainle	ess	Weather	NAME AND THE PROPERTY OF THE P	SUMNY			
Sampled By	G	5/M	<u></u>	_Air Temp	****	70°			
Water Lev	el and W	ell Data	a					Note: Fence	boxes 4
Depth to water	er from mea	suring p	oint		4.66		feet	LA BELEO	
Depth to well	bottom fron	n measu	ring point	AND SAME AND COMPANY AND AND COMPANY AND AND COMPANY A			feet		
Height of wat			01	de Pelek signifikasi mendanyan kemunyak pelembasi keram			feet		
Measuring Po					oc.				
_			<b>0</b> - 11 11	<u> </u>	the site of the si				
well Purg	ing and S	ampie	Collection						
Purge Metho	d	<b>(***</b>	PUMP		_	7			
Sample Meth	nod		PUMP		Start	Sample Col	ection Ti Stop	me	
							Time		
Purge Rate		<del></del>	100	liter/min	_Start	1047	Stop	1116	
	control set	ungs	4 on 20 off	e 11 ps;	_cycles	Correspondent de la companya del companya de la companya del companya de la compa	· · · · · · · · · · · · · · · · · · ·	-	
	changes?			- vaje de la companya	_duration				
Volume of W									
	2" well (vol		· ·		<del>-+</del>	· · · · · · · · · · · · · · · · · · ·			
	4" well (vol	ume = 0	.651 x h)						
Volume of wa	ater remove	d		and a supplemental		gallon	liters		
Was well pur	ged dry		Yes	(No)					
Field Anal	Veoe								
* Stabilization		•							
Time	1051	1056	1101	1106	1111	1116			
Temp	18.53	17.67		11.88	17.88	17.92			
рН	6.17	4.18		6.19	4.20	6.21			
Conductivity	2.53	2.55		2.55	2.54	2.54			
ORP*	-90	-114	MANAGEMENTA (DOMESSIONES PARTICIPATIONS CAROLINAS	-128	-129	-129		n (200 kg light) (d.) 21 Mars I Marsania	
D.O.*	.87	.38			1.23	,23			
Turhidity*	70	9.0	フスト	777	776	150			

Location	White Stree	et Landfill		Purge Date	4	124/ 0c			
Project No.	1584-98-08	11		Purge Time					
Source Well	I	-3		 Sample Dat	- L	4/24/06		<b></b>	
	<u></u>		The second secon	-	M. MODERNIK MANAGEMENT AND	1210	COMMUNICATION OF THE CHARGE OF	<del></del> ,	
Locked?	(Yes)	No		Sample Tim	1e	1210	SCALAR CARDINATE A THE TREE TO THE THIRD SERVICE		
PVC	Steel	Stainless		Weather	P/cu	LOUSY		Orleads	
Sampled By	<u>G</u> 5	/MC	comments to the second	_Air Temp	70	) 0	· · · · · · · · · · · · · · · · · · ·	mano.	
Water Lev	el and We	ll Data	*				Нот	ie: Fence Lockel	1 4
5 "	r			,	2 ^2		£4	LABRED	
Depth to water	er from meas	suring point		1	3.03		feet	HINGE BROKEN	ı
Depth to well	bottom from	measuring	point				feet		
Height of wat	er column				anning Theology operations for the State of	scomponent quyggayayayganaa maanaa maanayaa cida olaha bibbi	feet		
Measuring Po	oint				TOC	and y particular delication and the state of	a		
Well Purgi	ing and S	ample Co	llection	l					
Purge Metho	d	PL	SMP						
Sample Meth	•	Pι	JM P		- Start	Sample Col	<mark>lection T</mark> ir Stop	ne	
,	•				-9	-			
						Duras	Tima		
Purge Rate			100	liter/min	Start	Purge	Time Stop	1207	
Purge Rate	control sett	ings 40	100 H 2004	liter/min	_Start _cycles	_		1207	
Purge Rate	control sett	ings 4ø		······································	-	_		1207	
Purge Rate  Volume of W	changes?	ings 40		······································	_cycles	_		1207	
-	changes?		H 2004	······································	_cycles	_		]207	
-	changes? ater in well	ume = 0.16	н <i>200</i> ш 3 x h)	······································	_cycles	_		1207	
-	changes? ater in well 2" well (volu 4" well (volu	ume = 0.163 ume = 0.65	н <i>200</i> ш 3 x h)	······································	_cycles	_		1207	
Volume of W	changes? fater in well 2" well (volu 4" well (volu ater removed	ume = 0.163 ume = 0.65	н <i>200</i> ш 3 x h)	······································	_cycles	/38 	Stop	]207	
Volume of W Volume of wa	changes? ater in well 2" well (volu 4" well (volu ater removed	ume = 0.163 ume = 0.65	3 x h) 1 x h)	e 20151	_cycles	/38 	Stop	1207	
Volume of W Volume of wa Was well pur	changes? ater in well 2" well (volu 4" well (volu ater removed ged dry	ume = 0.163 ume = 0.65	3 x h) 1 x h)	e 20151	_cycles	/38 	Stop	]207	
Volume of W Volume of wa	changes? ater in well 2" well (volu 4" well (volu ater removed ged dry	ume = 0.16; ume = 0.65	3 x h) 1 x h)	© 20 PSI	_cycles	/38 	Stop	1207	
Volume of W Volume of wa Was well pur Field Anal * Stabilization Time	changes?  ater in well 2" well (volu 4" well (volu ater removed ged dry  yses 1142	ume = 0.16; ume = 0.65 I	3 x h) 1 x h) Yes	e 20151	cycles duration	gallon	Stop	]207	
Volume of W  Volume of wa  Was well pur  Field Anal  * Stabilization  Time  Temp	changes? ater in well 2" well (volu 4" well (volu ater removed ged dry  yses parameters	ume = 0.163 ume = 0.65 l	3 x h) 1 x h) Yes	(No)	cycles duration	gallon  1207 11.35	Stop	]207	
Volume of Was well pur  Field Anal  * Stabilization Time Temp pH	changes?  ater in well 2" well (volumenter removed) ged dry  yses n Parameters 1142 10.72 6.49	ume = 0.163 ume = 0.65 I	3 x h) 1 x h)  Yes  1152 16.90	No No 1157	cycles duration	gallon  1207 11.35 6.40	Stop	]207	
Volume of W  Volume of wa  Was well pur  Field Anal  * Stabilization  Time  Temp	changes?  ater in well 2" well (volumenter removed) ged dry  yses n Parameters 1142 10.72 6.49	ume = 0.165  ume = 0.65	3 x h) 1 x h)  Yes  1152 16.30 6.43	No No 1157 17.10 6.41	cycles duration	gallon  1207 11.35	Stop		
Volume of Was well pur  Field Anal  * Stabilization Time Temp pH Conductivity	changes?  ater in well 2" well (volumenter removed) ged dry  yses Parameters 1142 10.12 6.49 3.12	ume = 0.163 ume = 0.65 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 x h) 1 x h)  Yes  1157 16.30 6.43 3.03	No No 1157 17.10 6.41 3.03	1202 17.24 6.40 3.03	gallon  1207 11.35 6.40 3.01	Stop		

Location	White Stre	et Landfill		_Purge Date	e <u>4</u>	24/06	,		
Project No.	1584-98-0	81		_Purge Tim	e		Program Company and Schules Spice Medicines Company		
Source Well	<u></u> エ	- 4		_Sample Da	at <u>e 4</u>	124/06	and become a second of the sec		
Locked?	Yes	No		Sample Ti	m <u>e</u>	, 1305			
(PVC)	Steel	Stainless		Weather	Р	CLOUBY			
Sampled By	<u>G</u> S	MC		_Air Temp		70°			
Water Lev		1					NOTE:	FENCE LOC	KAD (
Depth to water	er from mea	suring poin	t		2.49		feet	HINGE BRU	XIN
Depth to well							- feet	W. 101C D. 1	
Height of wat			-,	<b>1</b>	. 7/2	Commission and Application of the Commission Commission Commission Commission Commission Commission Commission	- feet		
Measuring Po					TOC				
Well Purgi	ing and S	ample C	ollection	and the state of t			anto		•
Purge Metho		-	PUMP						
Sample Meth			PUMP	ANTONIO MARIANE ANT ANTONIO MARIANTA ANTONIO MARIANTA ANTONIO MARIANTA ANTONIO MARIANTA ANTONIO MARIANTA ANTONI	– Start	Sample Col	lection Time Stop	•	
·				and the state of t	_		- aka	Charles and the Control of the Contr	
						Purge	e Time		
Purge Rate			100	liter/min	_Start	Purge 1225	e Time _Stop	1300	
Purge Rate	control set	ings 1	100 .2 on 15 oa		_Start _cycles			1300	
Purge Rate	control sett	ings I						1300	
Purge Rate  Volume of W	changes?	-	.2 on 15 oa		_cycles			1300	
	changes? ater in well 2" well (vol	ume = 0.16	.2 ом 15 оа 3 x h)		_cycles			1300	
	changes?	ume = 0.16	.2 ом 15 оа 3 x h)		_cycles			1300	
	changes? ater in well 2" well (vol 4" well (vol	ume = 0.16 ume = 0.65	.2 ом 15 оа 3 x h)		_cycles			1300	
Volume of W	changes? fater in well 2" well (vol 4" well (vol ater removed	ume = 0.16 ume = 0.65	.2 ом 15 оа 3 x h)		_cycles	1225	_Stop	1300	
Volume of W Volume of wa	changes? ater in well 2" well (vol 4" well (vol ater removed	ume = 0.16 ume = 0.65	.2 on 15 oa :3 x h) :1 x h)	: e 19 psi	_cycles	1225	_Stop	1300	
Volume of W	changes? ater in well 2" well (vol 4" well (vol ater removed ged dry	ume = 0.16 ume = 0.65 d	.2 on 15 oa :3 x h) :1 x h)	: e 19 psi	_cycles	1225	_Stop	1300	
Volume of Was well pure Field Anal * Stabilization Time	changes? ater in well 2" well (vol 4" well (vol ater removed ged dry	ume = 0.16 ume = 0.65 d s	.2 on 15 on (3 x h) (1 x h) Yes	: e 19 psi	_cycles	1225	_Stop	1300	
Volume of W Volume of wa Was well pur Field Anal * Stabilization Time Temp	changes? ater in well 2" well (vol 4" well (vol ater removed ged dry  yses parameter.	ume = 0.16 ume = 0.65 d	.2 on 15 on (3 x h) (1 x h) Yes	No 1245	cycles duration	gallon  1255 1255 15.69	Stop	1300	
Volume of Was well pure  * Stabilization Time Temp pH	changes?  ater in well 2" well (vol 4" well (vol ater removed ged dry  yses n Parameters 1230 14.67 6.92	ume = 0.16  ume = 0.65  d  s  1235  15.87  6.85	.2 on 15 on (3 x h) (1 x h)  Yes  1240 15.94 6.86	No)	cycles duration	gallon  1255 1255 15.69 6.88	I300   I5.53   4.89	1300	
Volume of W  Volume of wa  Was well pun  Field Anal  * Stabilization  Time  Temp  pH  Conductivity	changes?  ater in well 2" well (vol 4" well (vol ater removed ged dry  yses Parameter  1230 14.67 6.92 7.59	ume = 0.16  ume = 0.65  d  s  1235  15.87  6.85  2.69	1240 15.94 4.86 2.87	No No 1245	1250 15.97 6.87	gallon  1255 1255 15.69 6.28 2.99	Stop	1300	
Volume of W Volume of wa Was well pure Field Anal * Stabilization Time Temp pH Conductivity ORP*	changes?  ater in well 2" well (vol 4" well (vol ater removed ged dry  yses Parameters 1230 14.07 6.92 7.59	ume = 0.16  ume = 0.65  d  s  1235  15.87  6.85  7.69	.2 on 15 on (3 x h) (1 x h)  Yes  1240 15.94 6.86	No No No 1245	1250 15.97 2.97	gallon    1255   15.69   0.88   2.99	1300   15.53   4.89   3.01	1300	
Volume of W  Volume of wa  Was well pun  Field Anal  * Stabilization  Time  Temp  pH  Conductivity	changes?  ater in well 2" well (vol 4" well (vol ater removed ged dry  yses Parameter  1230 14.67 6.92 7.59	ume = 0.16  ume = 0.65  d  s  1235  15.87  6.85  2.69	1240 15.94 4.86 2.87	No No 1245	1250 15.97 6.87	gallon  1255 1255 15.69 6.28 2.99	1300   15.53   4.89   3.01	1300	

Location	White Stree	et Landfill	Manager (MICH Springer) and a second	_Purge Date	4/	25/06	Man payana sakara mana a manapa a mana ang a manahili d			
Project No.	1584-98-08	1		Purge Time	<b>Blocker</b> - y skywa madau da sheka ka ki kamba ka ka					
Source Well	MW	-13	CONTROL OF THE PERSON NAMED IN CONTROL OF THE OWNER.	_Sample Date	e 4/	25/06				
Locked?	Yes	No		Sample Tim	е <i>Ј</i>	630	AND THE PARTY OF T	-		
evo	Steel	Stainless		Weather	ciai	ρλ	AND THE RESIDENCE OF THE PARTY	······································		
Sampled By	GS	/MC	BLANGTFANIYUWWWWWWWWWWWWWWWWWWWWWW	_Air Temp	75°	COLUMN STATEMENT	•	pp. scorks		
Water Lev		1	8				Ŋ	ete:	FENCE LABELEO	
Depth to water	er from meas	suring point		2	1.05		feet		4.70.0	
Depth to well	bottom from	measuring	, point				feet			
Height of wat	er column	_	•				feet			
Measuring Po				7	ωC	ыртоон мишен фа. 624 (644) E. 649 g. д. төртөө кажан эттөөө (644	-			
Well Purgi		ample Co	ollection				-			
J		•	MP							
Purge Method	d	レい	$\sim \Lambda P$							
J	٠.					Sample Col	lection Ti	ime		
Sample Meth	•	PU			Start	Sample Co	l <b>lection T</b> i _Stop	ime ——	· Karingan mangkatan sa	
Sample Meth	•	ρυι	MP		Start	Purg	_Stop e Time	**************************************		
_	od .	ρυ 	MP 00	liter/min	Start Start	-	Stop	**************************************	625	
Sample Meth	control sett	ρυ 	MP		Start Start cycles	Purg	_Stop e Time	**************************************	625	
Sample Meth	od .	ρυ 	MP 00		Start Start	Purg	_Stop e Time	**************************************	625	
Sample Meth	control sett	ρυ 	MP 00		Start Start cycles	Purg	_Stop e Time	**************************************	625	
Sample Meth	control sett	اںم ا ings +.8	MP OO on 15000		Start Start cycles	Purg	_Stop e Time	**************************************	625	
Sample Meth	control sett changes? ater in well	ρυ, ings +.\$ ume = 0.16	мР ОО он 15 обр 3 x h)		Start Start cycles	Purg	_Stop e Time	**************************************	625	
Sample Meth	control sett changes? ater in well 2" well (volu 4" well (volu	ρυ, ings +.9 ume = 0.16 ume = 0.65	мР ОО он 15 обр 3 x h)		Start Start cycles	Purg	_Stop e Time	**************************************	625	
Sample Meth Purge Rate Volume of W	control sett changes? ater in well 2" well (volu 4" well (volu ater removed	ρυ, ings +.9 ume = 0.16 ume = 0.65	мР ОО он 15 обр 3 x h)	e 15 psi	Start Start cycles	Purg 1553	_Stop e Time	**************************************	625	
Sample Meth Purge Rate  Volume of W  Volume of wa Was well pur  Field Anal	control sett changes? ater in well 2" well (volu 4" well (volu ater removed	ρυ, ings +.%  ume = 0.16  ume = 0.65	МР ОО он 15 обб 3 x h) 1 x h)	e 15 psi	Start Start cycles	Purg 1553	_Stop e Time	**************************************	625	•
Sample Meth Purge Rate  Volume of W  Volume of wa Was well pur  Field Anal * Stabilization	control sett changes? ater in well 2" well (volu 4" well (volu ater removed ged dry	ρυ, ings +.8  ume = 0.16  ume = 0.65	МР ОО ом 15 обб 3 x h) 1 x h) Yes	2. 15 PSI 3. Z	Start Start cycles duration	Purg 1553 gallon	_Stop e Time	**************************************	625	
Sample Method Purge Rate  Volume of Wolume of was well pur  Field Anala * Stabilization Time	control sett changes? later in well 2" well (volumenter removed dry liged dry liges liges ligen Parameters	ρυ, ings +.%  ume = 0.16  ume = 0.65	мР 00 он 15 обб 3 x h) 1 x h) Yes	3. Z No	Start Start cycles duration	Purg. 1553 gallon	_Stop e Time	**************************************	625	
Sample Method Purge Rate  Volume of Wolume of was well pur  Field Anala * Stabilization Time Temp	control sett changes? later in well 2" well (volumenter removed later la	ρυ, ings +.8  ume = 0.16  ume = 0.65  d	MP  OO 15000  3 x h) 1 x h)  Yes	3. Z No	Start Cycles duration	Purg. 1553  gallon  16 25	_Stop e Time	**************************************	625	
Sample Method Purge Rate  Volume of Wolume of	control sett changes? later in well 2" well (volumenter removed) ged dry  yses Parameters 1000  0.10	ρυ) ings +.8  ume = 0.16  ume = 0.65  d  s  1.60 5  18.68  6.65	MP  OO  ou 15 off  3 x h) 1 x h)  Yes	3. Z No 1615 18.56 6.59	Start Cycles duration	Purg. 1553  gallon  16 25 19.02 6.54	_Stop e Time	**************************************	625	
Sample Method Purge Rate  Volume of Wolume of	control sett changes? ater in well 2" well (volumenter removed) ater removed ater r	pulings +.8  ume = 0.16  ume = 0.65  1  1  1  1  1  1  1  1  1  1  1  1  1	MP  OO  ou 15 off  3 x h) 1 x h)  Yes  1610 18.49 6.61 .557	3. Z No 1615 18.56 6.59 . 548	Start Cycles duration  1620 19.09 6.59 . 541	Purg 1553 gallon	_Stop e Time	**************************************	625	
Sample Method Purge Rate  Volume of Wolume of	control sett changes? later in well 2" well (volumenter removed) ged dry  yses Parameters 1000  0.10	ρυ) ings +.8  ume = 0.16  ume = 0.65  d  s  1.60 5  18.68  6.65	MP  OO  ou 15 off  3 x h) 1 x h)  Yes	3. Z No 1615 18.56 6.59 . 548	Start Cycles duration	Purg. 1553  gallon  16 25 19.02 6.54	_Stop e Time	**************************************	1625	

## **APPENDIX B**

Laboratory Analytical Reports